IN THE CLAIMS:

Please amend claims 1, 2, 10. 13, 15, 16 and 17 as follows.

1. (Currently Amended) An imaging system for motor vehicles,

comprising:

a projector,

a holographic ray uniter, which guides narrow band light to a viewer to

produce a virtual image at the viewing location,

a holographic screen, which is produced by means of holographic shooting of a

real screen and which scatters incident narrow band light of one or more

wavelengths at a predetermined solid angle,

wherein the projector projects the light onto the holographic screen to

produce real images on said holographic screen, wherein the holographic ray uniter

is transparent to broad band ambient light, and wherein the narrow band light,

scattered by the holographic screen, is guided to the viewer.

2. (Currently Amended) The imaging system, as claimed in claim 1,

wherein a camera system, which is coupled to the projector, shoots images outside

the motor vehicle to enable the a view to at least one of the rear and the side.

3. (Previously Presented) The imaging system, as claimed in claim 1,

wherein the holographic ray uniter is arranged, from the viewer's view, at least one

of, in front of and on, the windshield of the motor vehicle.

Attorney Docket No: 056226.50771US PATENT

4. (Previously Presented) The imaging system, as claimed in claim 1, wherein the ray uniter is a holographic mirror.

- 5. (Previously Presented) The imaging system, as claimed in claim 1, wherein the ray uniter is a ray deflector with lens function.
- 6. (Previously Presented) The imaging system, as claimed in claim 1, wherein the projector comprises lasers with the primary colors red, green and blue.
- 7. (Previously Presented) The imaging system, as claimed in claim 1, wherein the projector comprises an image modulator.
- 8. (Previously Presented) The imaging system, as claimed in claim 1, wherein the ray uniter is disposed on a transparent plate.
- 9. (Previously Presented) The imaging system, as claimed in claim 1, wherein the holographic ray uniter and the holographic screen are arranged in such a manner that the virtual image appears for the viewer enlarged behind the windshield of the motor vehicle at a distance of at least 1.5 meters to the viewer.

Attorney Docket No: 056226.50771US

PATENT

10. (Currently Amended) The imaging system, as claimed in claim 1,

further comprising a device for coupling the imaging to the motor vehicle control

functions.

11. (Previously Presented) The imaging system, as claimed in claim 1,

wherein at least one of the ray uniter and the holographic screen is designed and

arranged in such a manner that the light cone coming from the ray uniter is limited

to the possible dwelling space of the viewer's eyes.

12. (Previously Presented) The imaging system, as claimed in claim 1,

wherein at least one of the ray uniter and the holographic screen is designed and

arranged in such a manner that they exhibit an imaging function.

13. (Currently Amended) A method for displaying images in motor

vehicles comprising the steps of:

projecting images by means of a laser and an image modulator for producing

a narrow band light on a holographic screen;

guiding the light rays, coming scattered from the holographic screen, into a

viewer's eyes, producing virtual images in a surface eutout located in front of the

windshield of the motor vehicle by means of a hologram connected in series to the

holographic screen to provide ray deflection.

Attorney Docket No: 056226.50771US

PATENT

14. (Previously Presented) A method for displaying images in motor

vehicles comprising the steps of:

projecting narrow band light of one or more wavelengths on a holographic

screen, which is produced by holographic shooting of a real screen, to produce a real

image on the holographic screen, and

guiding the light rays, scattered by the holographic screen at a

predetermined solid angle, into a viewer's eye,

whereby the light rays are deflected through a hologram and produce a

virtual image at the viewer, while simultaneously broad band light of the

environment lying behind the hologram passes through the hologram.

15. (Currently Amended) The method as claimed in claim 13, wherein

images of the a view from at least one of the rear and the perspective of the motor

vehicle side mirrors are faded into the peripheral area of the windshield.

16. (Currently Amended) The method as claimed in claim 13, wherein

the an angular distance between the a visual axis in the a direction of travel and

the virtual image is less than 30 degrees.

17. (Currently Amended) The method as claimed in claim 13, wherein

at least one of the rear and side images from the motor vehicle are displayed as a

function of the <u>a</u> driving state or the motor vehicle control functions.

Attorney Docket No: 056226.50771US

PATENT

18. (Original) The imaging system as claimed in claim 7, wherein the

image modulator is at least one of ferroelectric modulators and micro-mirror

devices.

19. (Original) The imaging system according to claim 9, wherein the

distance is at least 3 meters.

20. (Original) The method according to claim 16, wherein the angular

distance is substantially 10 degrees.

21. (Original) The method as claimed in claim 14, wherein images of the

view from at least one of the rear and the perspective of the motor vehicle side

mirrors are faded into the peripheral area of the windshield.

22. (Original) The method as claimed in claim 14, wherein the angular

distance between the visual axis in the direction of travel and the virtual image is

less than 30 degrees.